WAC 51-11C-40702 Section C407.2—Mandatory requirements.

C407.2 Mandatory requirements. Compliance with ((~~this~~)) Section C407 also requires compliance with those sections shown in Table C407.2.

The building permit application for projects utilizing this meth- od shall include in one submittal all building and mechanical drawings and all information necessary to verify that the building envelope and mechanical design for the project corresponds with the annual energy analysis. If credit is proposed to be taken for lighting energy sav- ings, then an electrical permit application shall also be submitted and approved prior to the issuance of the building permit. If credit is proposed to be taken for energy savings from other components, then the corresponding permit application (e.g., plumbing, boiler, etc.) shall also be submitted and approved prior to the building permit ap- plication. Otherwise, components of the project that would not be ap- proved as part of a building permit application shall be modeled ((~~the same in both the proposed building and the *standard reference design* and shall comply with the requirements of this~~)) in the baseline in accordance with ANSI/ASHRAE/IESNA 90.1 Appendix G and in the proposed model in accordance with the requirements of the Washington State En- ergy Code.

Table C407.2
Mandatory
Compliance
Measures for Total
Building
Performance Method

Section[a]	Title	Comments
Envelope		
C401	Thermal envelope certificate	
C402.2.7	Airspaces	
C402.5	Air leakage	
Mechanical		
C403.1.2	Calculation of heating and cooling loads	
C403.1.3	Data centers	
C403.1.4	Use of electric resistance and fossil fuel-fired HVAC heating equipment.	
C403.2	System design	
C403.3.1	Equipment and system sizing	

Commented [AB1]: Was this section intended to be referenced as mandatory for C407 pathway similar to 2018 SEC?

C403.3.2	HVAC equipment performance requirements	
C403.3.3	Hot gas bypass limitation	
C403.3.4	Boiler turndown	
C403.3.6	Ventilation for Group R occupancy	
((~~C403.4~~	~~HVAC system controls~~))	
C403.4.1	Thermostatic controls	((~~Except for C403.4.1.4~~))

Section[a]	Title	Comments
C403.4.2	Off-hour controls	((~~Except for Group R~~))
C403.4.7	Combustion heating equipment controls	
C403.4.8	Group R-1 hotel/ motel guestrooms	See Section C403.7.4
C403.4.9	Group R-2 and R-3 dwelling units	
C403.4.10	Group R-2 sleeping units	
C403.4.11	Direct digital control systems	
C403.5.5	Economizer fault detection and diagnostics (FDD)	
C403.7	Ventilation and exhaust systems	Except for C403.7.6
C403.8 except C403.8.1 and C403.8.4	Fan and fan controls	
C403.9.1.1	Variable flow controls	For cooling tower fans ≥ 7.5 hp
C403.9.1.2	Limitation on centrifugal fan cooling towers	For open cooling towers
C403.10	Construction of HVAC elements	
C403.11	Mechanical systems located outside of the building thermal envelope	
C403.13	Commissioning	

Commented [AB2]: This requires all fans >1 kW comply with the fan power budget, no option to "trade" fan power in the energy model. Should the fan power budgets be excluded from the mandatory requirements of C407 to allow design flexibility?